



A	B	C	D	E	F	G	H	I
1		Version 0.1.6	<a href="https://www.dbhd-hlw.de/">https://www.dbhd-hlw.de/</a> + <a href="http://www.ing-goebel.de">http://www.ing-goebel.de</a>					
2	<b>Calculation 7x DBHD nuclear repository south of Kröpelin</b>							
3	Last edit: 23. July 2018 / Dipl.-Ing. Volker Goebel DE / Nuclear Repository Planner ww							
4	<b>Capacity : 2.047 HLW Containers Germany / plus 473 HLW Containers from Switzerland</b>							
5	<b>Repository-Storage-Depth : from -2.650 Meters down to -3.350 Meters</b>							
6	Base : Draft-Plans, Pre-Building-Site-Plans / Planning 2014 - 2018 actually Version 1.3							
7								
8								
9	<b>Type of invest</b>	<b>Amount</b>	<b>Offer / Quote</b>	<b>Factor</b>	<b>Total</b>	<b>Comment</b>	<b>dwg</b>	
10			or hint from :					
11	Repository Plans	2014-2018 (3,5 y.)	Ing. V. Goebel+	350'000 €	1'225'000 €	Draft-Plans, B-Plans	yes	
12	Probe-Drillings	14 x	Prof. Dr. Reich	9'000'000 €	126'000'000 €	Cores > -3.800 m		
13	Land Purchase	7,7 km2	from local owners		77'000'000 €	7 x 110.000 m2	yes	
14	Shaft-Boring-Ma.	2 x SBM	Herrenknecht AG	60'000'000 €	120'000'000 €	2 yrs. delivery time	yes	
15	External streets	47 km	make-over		14'000'000 €	new / enhance		
16	DB Rail Connection	3 x	only last meters		18'000'000 €	3 of 6 locations		
17	E-powerconnection	7 x	local Vattenfall		17'500'000 €	10 kV med. voltage		
18	Water-connection	7 x	incl. water		21'000'000 €	10 bar with DN 200		
19	Internal Logistics		anticipation		35'000'000 €	7 building sites	yes	
20	Drill platform core	7 x	43.000 m3	1'000 €	301'000'000 €	floors and walls	yes	
21	Mat. storage ring	7 x	70.000 m3	900 €	441'000'000 €	floors and walls	yes	
22	Conveyor Belts	3 x			60'000'000 €	diverse types		
23	Heavy load trucks				8'000'000 €			
24	Compensations	20.000 Shares DE	direct local people	30'000 €	600'000'000 €	payment not bribe	yes	
25	Compensations	4.634 Shares CH	direct local people	30'000 €	139'000'000 €	payment not bribe	yes	
26	Planning Offices	diverse	many disciplines		117'000'000 €	over 10 years		
27	Approval Fees		many agencies		58'000'000 €	to Gov. Agencies		
28	Startfound. SBM	7 x		3'000'000 €	21'000'000 €	temp. Structures		
29	Shaft Drills D=12 m	7 x		50'000'000 €	350'000'000 €	autom. Maschine		
30	Spray-concr.-wall	9,3 m2 x 3.350 m	31.155 m3 x 7	600 €/m3	131'000'000 €	steel-fibre-amored	yes	
31	Shaft completion	3 sets	4 companies	46'000'000 €	138'000'000 €	Vent., Transport		
32	Air-Conditioning	8 x		10'000'000 €	80'000'000 €	cold dry air IN		
33	Cable-Drum-Houses	7 x	140.000 m3	1'000 €	980'000'000 €	Drum-Diam.=24 m		
34	Work-Over Rigs	2 x	Steelbuilders	3'200'000 €	6'400'000 €	with return pulley		
35	Steel-Cables CH	11 x	Fatzer AG CH	4.600.000	50'600'000 €	D = 60 mm		
36	Transition Cone	7 x	concrete constr.	1'100'000 €	7'700'000 €	12 m. to 23,3 m.		
37	Hole-opening	7 x	to Diam.=23,3 m.	12'000'000 €	84'000'000 €	with chain-saws		
38	Staff 11,6 years		4 h. shift down t.		64'000'000 €	Work & Safety		
39	Rocksalt-Salt-Sale	7 x 500.000 m3	rough quality	50 €/m3	-175'000'000 €	Asse/M./Gorleben	K+S	
40	Concrete-Pellets	315 x	6.634 m2 x 315	600 €/m3	1'254'000'000 €	Quality-Concrete	yes	
41	Closure works	7 x			70'000'000 €	Salt + M. Pressure		
42	building back	7 x			14'000'000 €	farmland again		
43	Unforseeables	8%			418'354'000 €	not BER airport		
44	<b>Total</b>	<b>in July 2018</b>			<b>5'647'779'000 €</b>			
45								
46								
47	plus HLW containers, plus rail-transport, plus law-cases					<b>5,65 Mrd. EUR</b>		
48								
49								
50								